

AMENDMENTS TO THE CLAIMS

Please amend the claims to read as follows:

1. to 17. (Cancelled)

18. **(Currently Amended)** ~~[The]~~ A kit for inferring the nucleotide sequence at codons of interest in the HIV reverse transcriptase (RT) and/or the amino acids corresponding to these codons and/or the HIV RT resistance spectrum of HIV isolates present in a biological sample comprising: ~~[according to claims 15 or 16,]~~

- (i) optionally, a means for releasing, isolating or concentrating the polynucleic acids present in said sample;
- (ii) optionally, at least one suitable set of primers;
- (iii) at least two different probes, wherein each probe is capable of hybridizing specifically to one or more target codons within any region I to VIII as represented in Figure 1, said probes optionally fixed to a solid support;
- (iv) a hybridization buffer, or components necessary for producing said buffer;
- (v) a wash solution, or components necessary for producing said solution;
- (vi) optionally, a means for detecting the hybrids resulting from the preceding hybridization;
- (vii) optionally, a means for attaching said probe to a solid support

wherein the set of primers is selected from the group consisting of:

SEQ ID No: 162 and 163, and

SEQ ID No: 164 and 39.

19. (Previously presented) A kit for inferring the nucleotide sequence at codons of interest in the HIV RT gene and/or the amino acids corresponding to these codons and/or the antiviral drug resistance spectrum of HIV isolates present in a biological sample, the kit comprising the following components:

at least two different probes, wherein the probes are selected from the group consisting of

SEQ ID NO: 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34, 35, 37, 40, 41, 44, 45, 46, 47, 48, 49, 50, 51, 52, 54, 55, 56, 57, 58, 59, 61, 62, 63, 64, 65, 66, 67, 68, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 114, 115, 117, 118, 119, 120, 121, 122, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 138, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 154, 155, 156, 157 and 159;

a hybridization buffer, or components necessary for producing said buffer; and

a wash solution, or components necessary for producing said solution.

20. (Cancelled)

21. **(Currently Amended)** The kit according to claim [any one of claims 15, 16,] 19 [or 20] wherein the probes are selected from the group consisting of SEQ ID NO: 4, 8, 9, 10, 11, 12, 13, 14, 15, 19, 21, 22, 24, 25, 27, 28, 30, 31, 32, 33, 34, 35, 40, 46, 48, 49, 50, 51, 52, 54, 55, 56, 57, 58, 70, 72, 73, 75, 76, 78, 79, 80, 81, 82, 83, 86, 88, 90, 93, 95, 96, 97, 98, 99, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 115, 117, 118, 119, 120, 121, 122, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 138, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 154, 155, 157 and 159.

22. **(Currently Amended)** The kit according to claim [any one of claims 15, 16,] 19 [or 20] wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 4, 8, 9, 10, 11, 12, 13, 14, 15, 19, 21, 22, 24, 25, 27 and 28.

23. **(Currently Amended)** The kit according to claim [any one of claims 15, 16,] 19 [or 20] wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 30, 31, 32, and 33.

24. **(Currently Amended)** The kit according to claim [any one of claims 15, 16,] 19 [or 20] wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 34, 35, 40, 46, 48, 49, 50, 51 and 52.

25. **(Currently Amended)** The kit according to claim [any one of claims 15, 16,] 19 [or 20] wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 57 and 58.

26. **(Currently Amended)** The kit according to claim [any one of claims 15, 16,] 19 [or 20] wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 70, 72, 73, 75, 76, 78, 79, 80, 81, 82 and 83.

27. **(Currently Amended)** The kit according to claim [any one of claims 15, 16,] 19 [or 20] wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 86, 88, 90, 93, 95, 96, 97, 98, 99, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 115, 117, 118, 119, 120, 121, 122, 124, 125, 126, 127, 128, 130, 131, 132, 133, 134, 135 and 136.

28. **(Currently Amended)** The kit according to claim [any one of claims 15, 16,] 19 [or 20] wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 138, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 154, 155, 157 and 159.

29. **(Currently Amended)** The kit according to claim [any one of claims 15, 16,] 19 [or 20] wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 5, 6, 7, 16, 17, 18, 20, 23, 26, 37, 41, 44, 45, 47, 54, 55, 56, 59, 61, 62, 63, 64, 65, 66, 67, 68, 71, 74, 77, 84, 85, 87, 89, 91, 92, 94, 100, 114, 128, 129, 138 and 156.

30. **(Currently Amended)** The kit according to claim ~~[any one of claims 15, 16,]~~ 19 ~~[or 20]~~ wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 5, 6, 7, 16, 17, 18, 20, 23 and 26.

31. **(Currently Amended)** The kit according to claim ~~[any one of claims 15, 16,]~~ 19 ~~[or 20]~~ wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 37, 41, 44, 45 and 47.

32. **(Currently Amended)** The kit according to claim ~~[any one of claims 15, 16,]~~ 19 ~~[or 20]~~ wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 54, 55, 56 and 59.

33. **(Currently Amended)** The kit according to claim ~~[any one of claims 15, 16,]~~ 19 ~~[or 20]~~ wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 61, 62, 63 and 64.

34. **(Currently Amended)** The kit according to claim ~~[any one of claims 15, 16,]~~ 19 ~~[or 20]~~ wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 65, 66, 67, 68, 71, 74, 77 and 84.

35. **(Currently Amended)** The kit according to claim ~~[any one of claims 15, 16,]~~ 19 ~~[or 20]~~ wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 85, 87, 89, 91, 92, 94, 100, 114, 128 and 129.

36. **(Currently Amended)** The kit according to claim ~~[any one of claims 15, 16,]~~ 19 ~~[or 20]~~ wherein at least one of the probes is selected from the group consisting of SEQ ID NO: 138 and 156.

37. **(Currently Amended)** The kit of ~~[claims]~~ claim 19 ~~[or 20]~~, further comprising a means for releasing, isolating, or concentrating polynucleic acids present in the sample.

38. **(Currently Amended)** The kit of ~~claims~~ claim 19 ~~for 20~~, further comprising at least one suitable set of primers.
39. (Cancelled)
40. (Previously presented) The kit according to claim 38, wherein the set of primers is selected from the group consisting of
 - SEQ ID No: 162 and 163, and
 - SEQ ID No: 164 and 39.
41. **(Currently Amended)** The kit of claim ~~claims~~ 19 ~~for 20~~, wherein at least two probes are fixed to a solid support.
42. **(Currently Amended)** The kit of claim ~~claims~~ 19 ~~for 20~~, further comprising a means for detecting hybrids resulting from hybridization of at least one of the two probes to the sample.